



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX TUN 07.0002**

Issue No.: **0**

Status: **Current**

Date of Issue: **2007-02-07**

Page 1 of 4

Applicant: **VEGA Grieshaber KG**
Am Hohenstein 113
D-77761 Schiltach
Germany

Electrical Apparatus: **Overvoltage Protection Unit B62-36G and B62-30W type ÜSB62-36G.CI* and ÜSB62-30W.CI***

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **[Zone 0] Ex ia IIC T6 resp. Ex ia IIC T6**

*Approved for issue on behalf of the IECEx
Certification Body:*

Karl-Heinz Schwedt

Position:

Head of IECEx CB

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

TÜV NORD CERT GmbH & Co.

KG

Am TÜV1
D-30519 Hannover
Germany



TUV NORD



IECEX Certificate of Conformity

Certificate No.: **IECEX TUN 07.0002**

Date of Issue: **2007-02-07** Issue No.: **0**

Page 2 of 4

Manufacturer: **VEGA Grieshaber KG**
Am Hohenstein 113
D-77761 Schiltach
Germany

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'
IEC 60079-26 : 2004 Edition: 1	Electrical apparatus for explosive gas atmospheres - Part 26: Construction, test and marking of Group II Zone 0 electrical apparatus

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

DE/TUN/ExTR07.0003/00

Quality Assessment Report:

DE/TUN/QAR06.0002/00



IECEX Certificate of Conformity

Certificate No.: IECEx TUN 07.0002

Date of Issue: 2007-02-07

Issue No.: 0

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The overvoltage protection devices B62-36G type ÜSB62-36G.CI* and B62-30W type ÜSB62-30W.CI* are used for the protection of intrinsically safe circuits against hazards of overvoltages e. g. caused by lightning strikes. The devices are allowed to be erected in the zone 1.

They meet the requirements of IEC 60079-14, section 12.3 if the connected intrinsically safe signal circuit at the input terminals complies with the level of protection ia and is suitable for zone 0 applications.

If the intrinsically safe signal circuit at the input terminals is not suitable for zone 0 applications, the intrinsically safe signal circuit at the output terminals also is not suitable zone 0 applications.

The level of protection of the circuit at the output terminals and of the overvoltage protection devices is the same as the level of protection of the circuit at the input terminals.

The intrinsically safe circuits are safely galvanically separated from earth potential.

The PA terminal has to be connected with the potential equalization of the explosion hazardous area.

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx TUN 07.0002

Date of Issue: 2007-02-07

Issue No.: 0

Page 4 of 4

EQUIPMENT(continued):

Electrical data

Overvoltage protection unit B62-36G type ÜSB62-36G.CI*

Signal circuit (Input terminals E1, E2 and output terminals A1, A2) in type of protection „Intrinsic Safety“ Ex ia IIC/IIB or Ex ib IIC/IIB only for connection to a certified intrinsically safe circuit maximum values:
 $U_i = 36 \text{ V}$
 $I_i = 450 \text{ mA}$

effective internal capacitance: 2.5 nF
effective internal inductance: 0.15 mH

Overvoltage protection unit B62-30W type ÜSB62-30W.CI*

Signal circuit (Input terminals E1, E2 and output terminals A1, A2) in type of protection „Intrinsic Safety“ Ex ia IIC/IIB or Ex ib IIC/IIB only for connection to a certified intrinsically safe circuit maximum values:
 $U_i = 36 \text{ V}$
 $I_i = 400 \text{ mA}$

effective internal capacitance: 2.5 nF
The effective internal inductance is negligibly small.

Type ÜSB62-36G.CI*

Temperature class	Ambient temperature range
T6	- 40°C... + 60°C
T5, T4, T3, T2, T1	- 40°C... + 80°C

Type ÜSB62-30W.CI*

Temperature class	Ambient temperature range
T6	- 40°C... + 53°C
T5, T4, T3, T2, T1	- 40°C... + 80°C



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx TUN 07.0002 issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2011-12-16)
Issue No. 0 (2007-2-7)

Date of Issue: **2011-12-16** Page 1 of 4

Applicant: **VEGA Grieshaber KG**
Am Hohenstein 113
D-77761 Schiltach
Germany

Electrical Apparatus: **Overvoltage Protection Unit B62-36G and B62-30W type ÜSB62-36G.C_* and ÜSB62-30W.C_***
Optional accessory:

Type of Protection: **Intrinsic Safety**

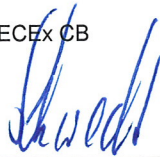
Marking: **Ex ia [ia Ga] IIC T6 Gb resp. Ex ia IIC T6 Gb**

Approved for issue on behalf of the IECEx Certification Body: Karl-Heinz Schwedt

Position: Head of IECEx CB

Signature:
(for printed version)

Date:


2011-12-16

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

TÜV NORD CERT GmbH
Hanover Office
Am TÜV 1
30519 Hannover
Germany





IECEX Certificate of Conformity

Certificate No.: IECEx TUN 07.0002

Date of Issue: 2011-12-16

Issue No.: 1

Page 2 of 4

Manufacturer: **VEGA Grieshaber KG**
Am Hohenstein 113
D-77761 Schiltach
Germany

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

- IEC 60079-0 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5
- IEC 60079-11 : 2006** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 5
- IEC 60079-26 : 2006** Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
Edition: 2

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[DE/TUN/ExTR07.0003/01](#)

Quality Assessment Report:

[DE/TUN/QAR06.0002/04](#)



IECEx Certificate of Conformity

Certificate No.: IECEx TUN 07.0002

Date of Issue: 2011-12-16

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

See annexe

CONDITIONS OF CERTIFICATION: NO



IECEX Certificate of Conformity

Certificate No.: IECEx TUN 07.0002

Date of Issue: 2011-12-16

Issue No.: 1

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

- New marking
- New type designation
- No technical changes carried out